

**SYSTEM AND METHOD FOR CONCATENATING DATA**

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**ABSTRACT OF THE DISCLOSURE**

A system and method for concatenating data segments before the data segments are sent to a requesting host system is provided. The system includes, a read  
10 assembly module; a read command queue, which provides information to the read assembly module; and a controller that controls the read command queue. The read assembly module includes, a first register for receiving data segments and a data start address; and a  
15 second register for concatenating data segments having different data segment size. The read assembly module also includes a third register that holds data before it is sent to the second register; and a fourth register for padding data segments, if padding is  
20 needed. The method includes, receiving data start address; and assembling data segments such that the segments appear contiguous.